

## INTERNATIONAL SEARCH REPORT

In/ onal Application No  
PCT/US2004/016431A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C07F9/02 C07F9/38

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	COSTAMAGNA P ET AL: "Nafion<(>R) 115/zirconium phosphate composite membranes for operation of PEMFCs above 100°C" ELECTROCHIMICA ACTA, ELSEVIER SCIENCE PUBLISHERS, BARKING, GB, vol. 47, no. 7, 11 January 2002 (2002-01-11), pages 1023-1033, XP004332197 ISSN: 0013-4686 abstract; table 1; compound A	1-35
A	EP 1 191 621 A (GEESTHACHT GKSS FORSCHUNG) 27 March 2002 (2002-03-27) claim 1	1-35
X	WO 92/18592 A (CATALYTICA INC) 29 October 1992 (1992-10-29) claim 4; example 1	9

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \* & \* document member of the same patent family

Date of the actual completion of the international search

26 October 2004

Date of mailing of the international search report

15/11/2004

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1191621	A	27-03-2002	DE	10047551 A1	18-04-2002
			EP	1191621 A2	27-03-2002
WO 9218592	A	29-10-1992	US	5241112 A	31-08-1993
			EP	0580735 A1	02-02-1994
			JP	6509555 T	27-10-1994
			WO	9218592 A1	29-10-1992